

# SILENT OFFICE CONCEPT



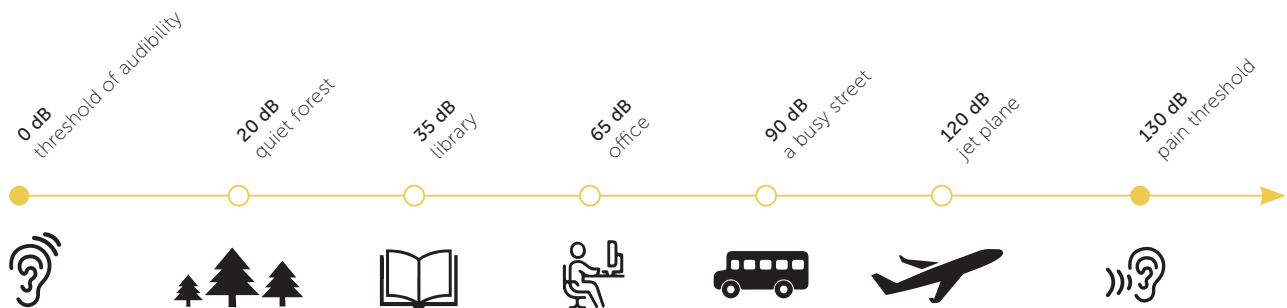
# ACOUSTICS

## SILENT OFFICE CONCEPT

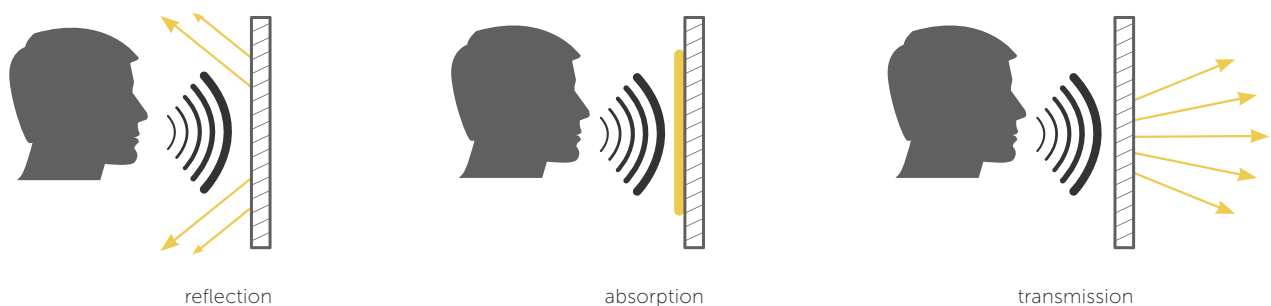
### SOUND

At every moment of every day, we are all surrounded by sound. The effects of this experience on the human organism can be positive, but the dangers are just as potent.

### TYPICAL NOISE LEVELS



### SOUND DISTRIBUTION IN AN INTERIOR SPACE



Outfitting a room with sound-absorbing materials can result in a substantial reduction of the overall noise level. This leads to improved audibility and clarity between colleagues, which in turn contributes to a lower conversational volume.



# ACOUSTICS IN THE OFFICE

## SILENT OFFICE CONCEPT



SOUND  
REFLECTION  
IN A TYPICAL  
OFFICE

Many people spend up to a third of their lives at work. As such, it's essential to plan our offices so that they provide the best possible conditions for undisturbed work. In workplaces without special acoustic considerations,

echoes and other background noise can quickly reach intolerable levels. Both output and morale are negatively impacted as employees struggle to maintain concentration, productivity and creativity in such a chaotic environment.



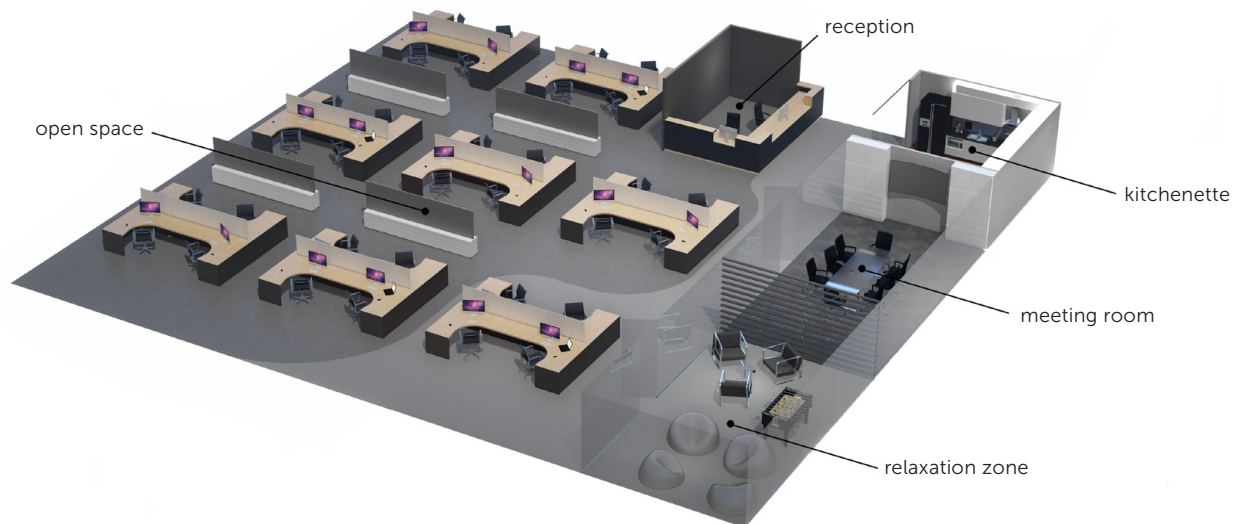
SOUND  
ABSORPTION  
IN AN OFFICE  
WITH ACOUSTIC  
ITEMS

By installing acoustic fixtures in the right positions, office users can benefit from a significant reduction in background noise.

This increase in acoustic comfort will boost concentration and efficiency as well as employee health over time.

# TYPICAL OFFICE AREAS

# SILENT OFFICE CONCEPT

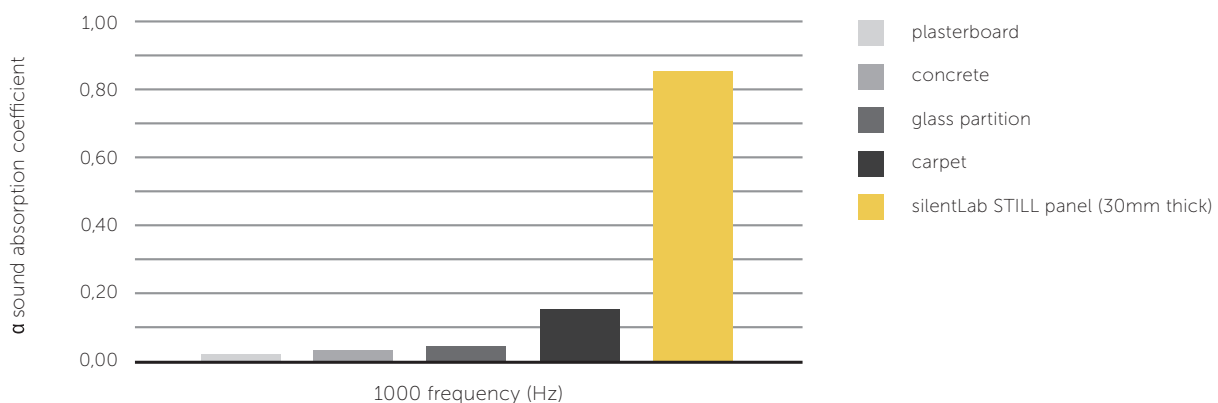


## MATERIALS IN OFFICES

Visible concrete, plasterboard, glass and other common office materials have negligible sound-absorption properties. These materials instead reflect sound around the room to create a distracting echo effect.

Listed below are the acoustic capabilities of these typical office materials. They're contrasted with a SilentLab STILL panels to highlight the benefits of specialized acoustic technology.

## OFFICE MATERIAL SOUND ABSORPTION CAPACITY



# WORKING ENVIRONMENT

## SILENT OFFICE CONCEPT

Offices are divided into different zones according to the activities taking place in each.

Each individual zone therefore requires a specialized acoustic approach designed to eliminate echo, reduce background noise and ensure privacy.

### THE MAIN PROBLEMS OF TODAY'S OFFICES AND THEIR CONSEQUENCES

LACK OF PRIVACY  
EXCESSIVE NOISE  
COMMUNICATION DIFFICULTIES



IMPAIRED CONCENTRATION  
REDUCED PRODUCTIVITY  
STRESS, OTHER ADVERSE HEALTH IMPACTS

## CASE STUDY

Employee satisfaction surveys reveal that excessive noise is one of the most frequently reported problems in contemporary offices.

According to one study\*, an average employee will lose 21 minutes per day due to noise distractions. For example, in a company with 100 employees and a total hourly labor cost of €25 for each, noise-related losses may reach €210,000 per year.



1 EMPLOYEE	DAY	MONTH	YEAR
INEFFICIENT USE OF TIME	20 minutes	7 hours	84 hours
COSTS OF EMPLOYEES	8 €	175 €	2 100 €



100 EMPLOYEES	DAY	MONTH	YEAR
INEFFICIENT USE OF TIME	2 000 minutes	700 hours	8 400 hours
COSTS OF EMPLOYEES	833 €	17 500 €	210 000 €

\* Perceived acoustic environment, work performance and well being – survey results from Finnish offices, presented to the International Congress of Noise as a Public Health Problem (2008).

# ACOUSTIC PRODUCT TYPES BY FUNCTION

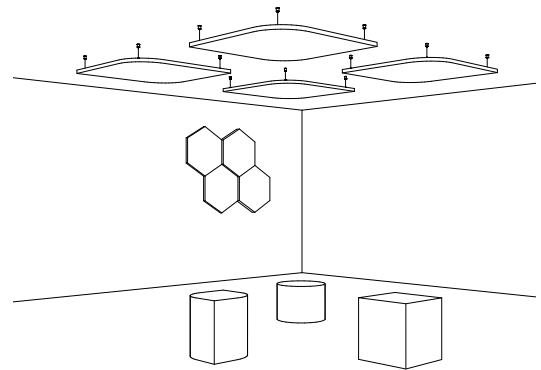
## SILENT OFFICE CONCEPT

ACOUSTIC PRODUCTS  
CAN BE DIVIDED INTO SEVERAL  
CATEGORIES BY THEIR FUNCTION  
IN THE WORKPLACE

### 1 SOUND ABSORPTION

ACOUSTIC WALL AND CEILING PANELS, POUFS

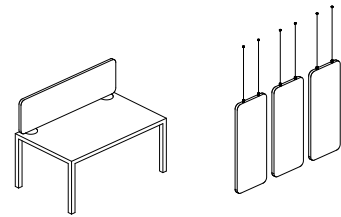
These items absorb sound that would otherwise be reflected, thereby reducing noise and improving communication in the room.



### 2 SPACE DIVISION

DESK, HANGING AND FREE-STANDING DIVIDERS

Through both acoustic and visual improvements, dividers keep sound contained, ensuring it does not spread into other areas.



### 3 PRIVACY ENHANCEMENT

MICROOFFICE, ACOUSTIC SEATING, PHONE BOX

The soundproof MICROOFFICE and other related items provide a private setting for conference calls or sensitive negotiations.

